



## Science Toolkit: Grade 6 Objective 2.C.1.c

Student Handout: Science: Grade 6 Objective 2.C.1.c

Standard 2.0 Earth/Space Science

Topic C. Plate Tectonics

Indicator 1. Recognize and describe the internal and external structure of the Earth.

Objective c. Identify and describe the Earth's crust.

The solid crust consists of separate plates

The plates constantly move in different directions due to convection currents

The plates interact with one another as a result of plate motion.

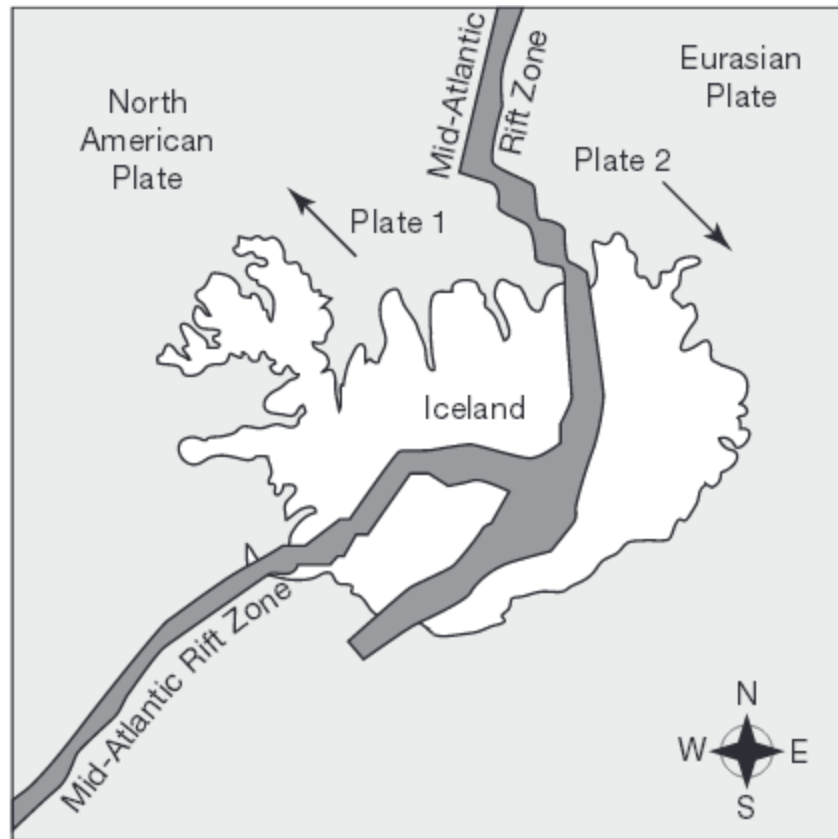
Selected Response (SR) Item

Question

Use the information and map below to answer the following:

The tectonic plates on opposite sides of a rift zone are continuously moving outward, away from a break in the crust of Earth. The Mid-Atlantic Rift Zone is located in the Atlantic Ocean. This rift zone stretches from the Arctic Ocean in the Northern Hemisphere to beyond the southern tip of Africa in the Southern Hemisphere. Within the central rift zone, new crust forms.

Iceland is an island sitting atop the northern part of the Mid-Atlantic Rift Zone. Over time, activity along the rift zone has changed the geologic features of Iceland.



Which action is most likely responsible for the movement of the tectonic plates?

- A. the rotation of Earth on its axis
- B. the gravitational force of the sun
- C. magnetic attraction from the core
- D. convection currents in the mantle

Correct Answer

D. convection currents in the mantle

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